Bridge Durability – New Construction

Emphasis on Value of Investment

Small Cost Increases Substantially Improving Durability

- 3 Coat Zinc Coatings
- High Performance Concrete
- Corrosion Resistant Reinforcement
- Jointless Bridges
- Low Paste Deck Concrete
- Better Culvert Materials

Year Implemented:
- 1984
- 2003
- 2009
- 2011
- 2015
- 2016
Total Replacement Costs – 35 Year Outlook to Replace Bridges at Age 70

Costs for Bridges Currently Structurally Deficient or Currently Over 70 are Spread over the Next 25 Years

$180M – Peak Annual Bridge Construction Funding
35 Year Funding Outlook to Replace Bridges at Age 70

<table>
<thead>
<tr>
<th>Total Replacement Cost - $Billions</th>
<th>Available</th>
<th>Needed</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>$6</td>
<td>$44</td>
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Investment Strategies

Preservation Strategies
Fast Track Hydrodemolition
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Concrete Overlays
Eliminating joints by constructing joint closures at piers
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